

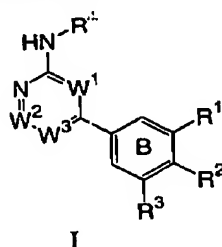
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Applicants: Randy S. Bethiel et al.
Application No.: 10/700,936

AMENDMENTS TO THE CLAIMS

Please replace all prior versions and listings of claims with the amended claims as follows:

1. (Previously presented) A compound of formula I:



or a pharmaceutically acceptable salt thereof, wherein:

W^1 is nitrogen or CH, W^2 is nitrogen or $C-(J)_pR^U$, and W^3 is nitrogen or $C-(V)_qR^V$;

p and q are each independently 0 or 1;

R^U and R^V are each independently R or Ar^1 ;

U and V are each independently a bond or a C_{1-6} alkylidene chain, wherein up to two methylene units of the chain are optionally and independently replaced by CO, CO₂, COCO, CONR, OCONR, NRNR, NRNRCO, NRCO, NRCO₂, NRCONR, SO, SO₂, NRSO₂, SO₂NR, NRSO₂NR, O, S, or NR;

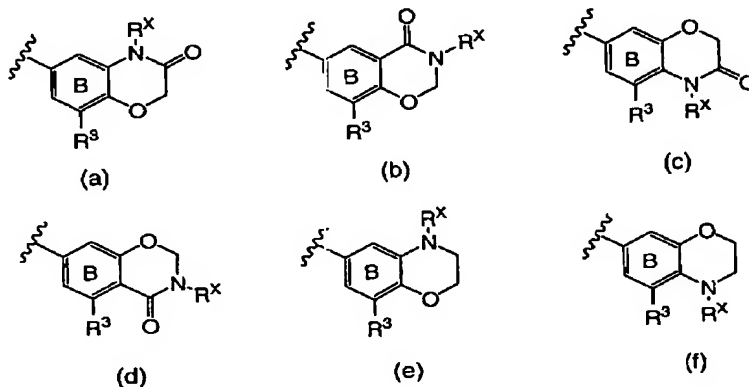
each occurrence of R is independently hydrogen or an optionally substituted C_1 - C_4 aliphatic, or two R bound to the same nitrogen atom are optionally taken together with the nitrogen atom to form a 3-7 membered saturated, partially unsaturated, or fully unsaturated ring having 0-2 additional heteroatoms independently selected from nitrogen, oxygen, or sulfur;

Ar^1 is a 5-7 membered saturated, partially unsaturated, or fully unsaturated monocyclic ring having 0-3 heteroatoms independently selected from nitrogen, oxygen, or sulfur, or an 8-12 membered saturated, partially unsaturated, or fully unsaturated bicyclic ring system having 0-5 heteroatoms independently selected from nitrogen, oxygen, or

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sulfur; wherein Ar^1 is optionally substituted with m independent occurrences of Z-R^5 ; wherein m is 0-5, Z is a bond or is a $\text{C}_1\text{-C}_6$ alkylidene chain wherein up to two methylene units of Z are optionally replaced by CO , CO_2 , COCO , CONR , OCONR , NRNR , NRNRCO , NRCO , NRCO_2 , NRCONR , SO , SO_2 , NRSO_2 , SO_2NR , NRSO_2NR , O , S , or NR ; and each occurrence of R^5 is independently hydrogen, an optionally substituted aliphatic, heteroaliphatic, aryl or heteroaryl group, halogen, NO_2 , CN , OR , SR , N(R)_2 , NRCOR , NRCON(R)_2 , NRCO_2R , COR , CO_2R , OCOR , CON(R)_2 , OCON(R)_2 , SOR , SO_2R , $\text{SO}_2\text{N(R)}_2$, NRSO_2R , $\text{NRSO}_2\text{N(R)}_2$, COCOR , or COCH_2COR ;

R^1 and R^2 are taken together and fused to ring B to form a heterocyclic moiety selected from one of formulae (a) through (f):



wherein each occurrence of R^X is independently hydrogen, QR , or Q_nAr^1 ; n is zero or one;

and Q is an optionally substituted C_{1-4} alkylidene chain wherein one methylene unit of Q is optionally replaced by CO , CO_2 , COCO , CONR , OCONR , NRNR , NRNRCO , NRCO , NRCO_2 , NRCONR , SO , SO_2 , NRSO_2 , SO_2NR , NRSO_2NR , O , S , or NR ;

R^3 is hydrogen, halogen, QR , Q_nCN , Q_nNO_2 , or Q_nAr^1 ; and

R^4 is Ar^1 , or T-Ar^1 ;

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wherein T is a C₁₋₂ alkylidene chain wherein one methylene unit of T is optionally replaced by CO, CO₂, COCO, CONR, OCONR, NRNR, NRNRCO, NRCO, NRCO₂, NRCONR, SO, SO₂, NRSO₂, SO₂NR, NRSO₂NR, O, S, or NR.

2. (Previously presented) The compound of claim 1, wherein R¹ and R² taken together form the heterocyclic moiety of formula (a) and R^X is hydrogen or optionally substituted C₁₋₆ aliphatic.
3. (Original) The compound of claim 1, wherein R^X is hydrogen, methyl, ethyl, propyl, n-butyl, tert-butyl, pentyl, cyclopentyl, hexyl, cyclohexyl, C₁₋₆alkyl substituted with N(R)₂, or C₁₋₆alkyl substituted with Ar¹.
4. (Original) The compound of claim 1, wherein R^X is hydrogen, methyl, or C₁₋₂alkyl substituted with a group selected from optionally substituted phenyl, pyridyl, morpholino, piperidinyl, or piperazinyl.
5. (Original) The compound of claim 1, wherein R³ is hydrogen, halogen, QR or QAr¹, wherein Q is a C₁₋₃ alkylidene chain wherein one methylene unit of Q is optionally replaced by -O-, -S-, -NHCO-, or -NR-, and Ar¹ is an optionally substituted 5-6 membered saturated, partially unsaturated, or fully unsaturated ring having 0-2 heteroatoms independently selected from nitrogen, oxygen, or sulfur.
6. (Original) The compound of claim 1, wherein R³ is hydrogen, OH, OCH₃, OCH₂CH₃, NHCOMe, NH₂, NH(C₁₋₄ aliphatic), N(C₁₋₄ aliphatic)₂, O(CH₂)₂morpholin-4-yl, O(CH₂)₂NH₂, O(CH₂)₂NH(C₁₋₄ aliphatic), O(CH₂)₂N(C₁₋₄ aliphatic)₂, Br, Cl, or F.
7. (Original) The compound of claim 1, wherein R³ is hydrogen.

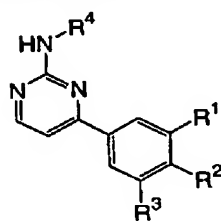
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8. (Original) The compound of claim 1, wherein R^4 is a 6-membered saturated, partially unsaturated, or aryl ring having 0-3 nitrogens; a 9-10 membered bicyclic aryl ring having 0-2 nitrogen atoms, or a 5 membered heteroaryl ring having 2-3 heteroatoms independently selected from nitrogen, oxygen, or sulfur, wherein each ring is optionally substituted.
9. (Original) The compound of claim 1, wherein R^4 is optionally substituted phenyl, cyclohexyl, naphthyl, pyridyl, pyrimidinyl, triazinyl, thiazolyl, thiadiazolyl, pyrazolyl, isoxazolyl, indazolyl, or benzimidazolyl.
10. (Original) The compound of claim 1, wherein R^4 is an optionally substituted phenyl group.
11. (Original) The compound of claim 8, wherein each occurrence of Z is independently a bond or a C_{1-4} alkylidene chain wherein one methylene unit of Z is optionally replaced by -O-, -S-, -SO₂-, or -NH-; and each occurrence of R^5 is independently hydrogen, C_{1-6} aliphatic, halogen, NO₂, OR, N(R)₂, or optionally substituted phenyl, pyridyl, or pyrimidinyl.
12. (Previously presented) The compound of claim 8, wherein each occurrence of ZR^5 is independently Cl, F, Br, methyl, ethyl, t-butyl, isopropyl, cyclopropyl, nitro, CN, OMe, OEt, CF₃, NH₂, phenyl, benzyl, benzyloxy, OH, methylenedioxy, SO₂NH₂, CONH₂, CO₂Me, phenoxy, O-pyridinyl, SO₂phenyl, nitrophenoxy, aminophenoxy, S-dimethylpyrimidine, NHphenyl, NH-methoxyphenyl, pyridinyl, phenol, chloro-fluoro-phenyl, dimethylaminophenyl, CF₃-phenyl, dimethylphenyl, chlorophenyl, fluorophenyl, methoxyphenoxy, chlorophenoxy, ethoxyphenoxy, and fluorophenoxy.
13. (Original) The compound of claim 1, wherein $(U)_pR^U$ and $(V)_qR^V$ are each independently hydrogen, halogen, NO₂, CN, OR, SR or N(R)₂, or C_{1-4} aliphatic optionally substituted with oxo, OR, SR, N(R)₂, halogen, NO₂ or CN.

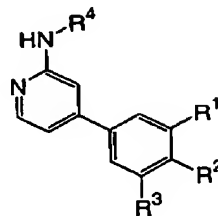
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14. (Original) The compound of claim 1, wherein $(U)_pR^U$ and $(V)_qR^V$ are each independently hydrogen, Me, OH, or OMe.

15. (Original) The compound of claim 1, wherein W^1 is N or CH and compounds have the structure of Formula Ia or Ib:



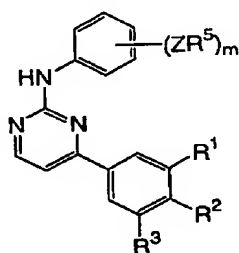
Ia



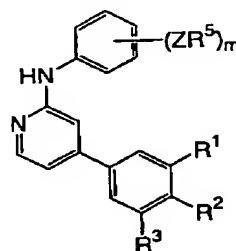
Ib

or a pharmaceutically acceptable salt thereof.

16. (Previously presented) The compound of claim 15, wherein R^4 is an optionally substituted phenyl group and compounds have the structure of Formula IIa or IIb:



IIa

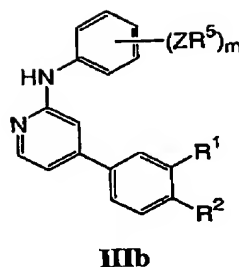
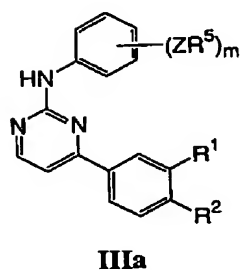


IIb

or a pharmaceutically acceptable salt thereof.

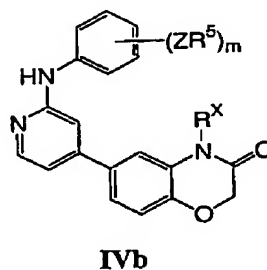
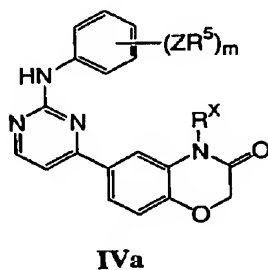
17. (Previously presented) The compound of claim 16, wherein R^3 is hydrogen, and compounds have the structure of Formula IIIa or IIIb:

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or a pharmaceutically acceptable salt thereof.

18. (Previously presented) The compound of claim 16, wherein R^3 is hydrogen, and R^1 and R^2 taken together form the heterocyclic moiety of formula (a) and compounds have the structure of Formula IVa or IVb:



or a pharmaceutically acceptable salt thereof.

19. (Previously presented) The compound of claim 15, wherein
 i) R^1 and R^2 taken together form the heterocyclic moiety of formula (a); where R^X is defined according to one of the following groups:

- (a) hydrogen or optionally substituted C_{1-6} aliphatic;
- (b) hydrogen, methyl, ethyl, propyl, n-butyl, tert-butyl, pentyl, cyclopentyl, hexyl, cyclohexyl, C_{1-6} alkyl substituted with $N(R)_2$, or C_{1-6} alkyl substituted with Ar^1 ; or

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(c) hydrogen, methyl, or C_{1-2} alkyl substituted with a group selected from optionally substituted phenyl, pyridyl, morpholino, piperidiny, or piperazinyl.

ii) R^3 is defined according to one of the following groups:

(a) hydrogen, halogen, QR or QAr^1 , wherein Q is a C_{1-3} alkylidene chain wherein one methylene unit of Q is optionally replaced by -O-, -S-, -NHCO-, or -NR-, and Ar^1 is an optionally substituted 5-6 membered saturated, partially unsaturated, or fully unsaturated ring having 0-2 heteroatoms independently selected from nitrogen, oxygen, or sulfur;

(b) hydrogen, OH, OCH_3 , OCH_2CH_3 , $NHCOMe$, NH_2 , $NH(C_{1-4} \text{ aliphatic})$, $N(C_{1-4} \text{ aliphatic})_2$, $O(CH_2)_2$ morpholin-4-yl, $O(CH_2)_2NH_2$, $O(CH_2)_2NH(C_{1-4} \text{ aliphatic})$, $O(CH_2)_2N(C_{1-4} \text{ aliphatic})_2$, bromo, chloro, or fluoro; or

(c) hydrogen;

iii) R^4 is defined according to one of the following groups:

(a) a 6-membered saturated, partially unsaturated, or aryl ring having 0-3 nitrogens, a 9-10 membered bicyclic aryl ring having 0-2 nitrogens, or a 5 membered heteroaryl ring having 2-3 heteroatoms independently selected from nitrogen, oxygen, or sulfur, wherein said ring is optionally substituted with $(ZR^5)_m$;

(b) an optionally substituted ring selected from phenyl, cyclohexyl, naphthyl, pyridyl, pyrimidinyl, triazinyl, thiazolyl, thiadiazolyl, pyrazolyl, isoxazolyl, indazolyl, or benzimidazolyl, wherein said ring is optionally substituted with $(ZR^5)_m$; or

(c) an optionally substituted phenyl group, wherein said phenyl group is optionally substituted with $(ZR^5)_m$;

iv) W^1 , W^2 and W^3 are defined according to one of the following groups:

(a) W^1 is nitrogen or CH, W^2 is nitrogen or $C-(U)_pR^U$, and W^3 is nitrogen or $C-(V)_qR^V$;

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- (b) W^1 is nitrogen or CH, W^2 is $C-(U)_pR^U$, and W^3 is $C-(V)_qR^V$; or
- (c) W^1 is nitrogen or CH and W^2 and W^3 are each CH; and
- v) $(U)_pR^U$ and $(V)_qR^V$ groups are defined according to one of the following groups:
 - (a) hydrogen, halogen, NO_2 , CN, OR, SR or $N(R)_2$, or C_{1-4} aliphatic optionally substituted with oxo, OR, SR, $N(R)_2$, halogen, NO_2 or CN;
 - (b) hydrogen, Me, OH, OMe or $N(R)_2$; or
 - (c) both $(U)_pR^U$ and $(V)_qR^V$ are hydrogen.

20. (Previously presented) The compound of any one of claims 16, 17, 18 or 19, wherein each occurrence of Z is independently a bond or a C_{1-4} alkylidene chain wherein one methylene unit of Z is optionally replaced by -O-, -S-, - SO_2 -, or -NH-; and each occurrence of R^5 is independently hydrogen, C_{1-6} aliphatic, halogen, NO_2 , OR, $N(R)_2$, or optionally substituted phenyl, pyridyl, and pyrimidinyl

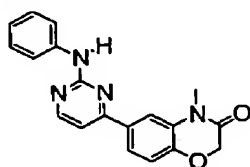
21. (Previously presented) The compound of claim 20, wherein each occurrence of ZR^5 is independently Cl, F, Br, methyl, ethyl, t-butyl, isopropyl, cyclopropyl, nitro, CN, OMe, OEt, CF_3 , NH_2 , phenyl, benzyl, benzyloxy, OH, methylenedioxy, SO_2NH_2 , $CONH_2$, CO_2Me , phenoxy, O-pyridinyl, SO_2 phenyl, nitrophenoxy, aminophenoxy, S-dimethylpyrimidine, NHphenyl, NH-methoxyphenyl, pyridinyl, phenol, chloro-fluoro-phenyl, dimethylaminophenyl, CF_3 -phenyl, dimethylphenyl, chlorophenyl, fluorophenyl, methoxyphenoxy, chlorophenoxy, ethoxyphenoxy, or fluorophenoxy.

22. (Previously presented) The compound of claim 18 having the formula IVa, wherein R^X is hydrogen or optionally substituted C_{1-6} aliphatic; m is 0, 1 or 2; and ZR^5 is Cl, F, Br, methyl, ethyl, t-butyl, isopropyl, cyclopropyl, nitro, CN, OMe, OEt, CF_3 , NH_2 , phenyl, benzyl, benzyloxy, OH, methylenedioxy, SO_2NH_2 , $CONH_2$, CO_2Me , phenoxy, O-pyridinyl, SO_2 phenyl, nitrophenoxy, aminophenoxy, S-dimethylpyrimidine, NHphenyl, NH-methoxyphenyl, pyridinyl, phenol, chloro-fluoro-phenyl, dimethylaminophenyl, CF_3 -phenyl,

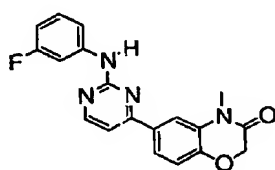
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dimethylphenyl, chlorophenyl, fluorophenyl, methoxyphenoxy, chlorophenoxy, ethoxyphenoxy, or fluorophenoxy.

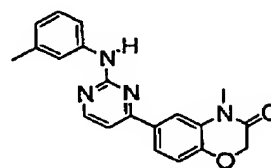
23. (Previously presented) The compound of claim 1, selected from one of the following compounds:



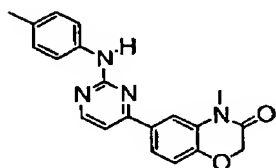
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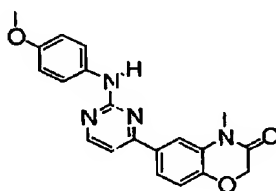
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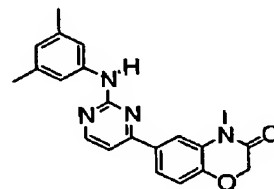
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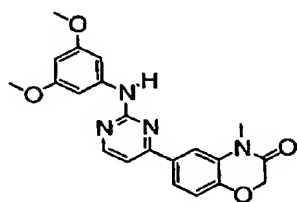
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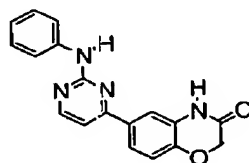
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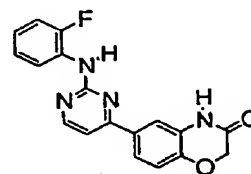
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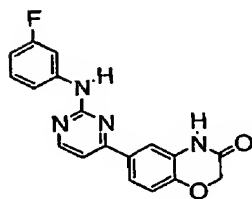
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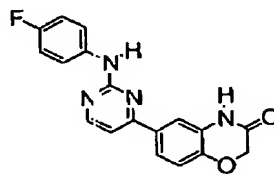
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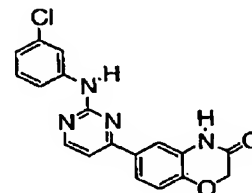
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IVa-10

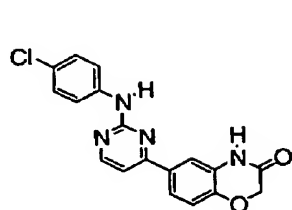


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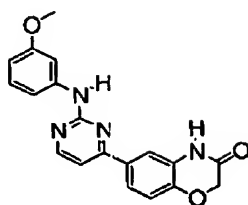


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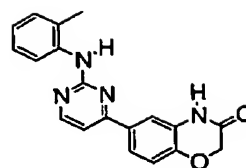
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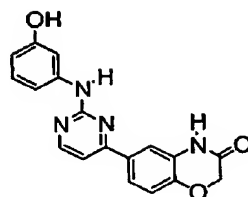
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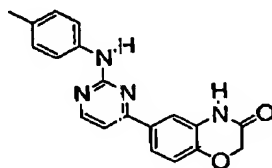
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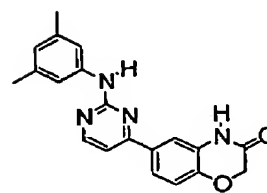
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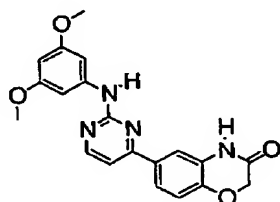
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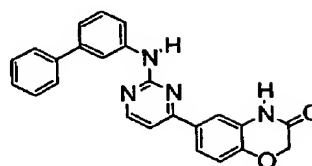
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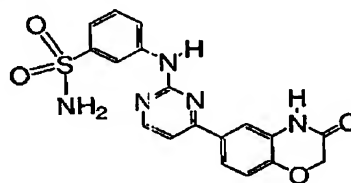
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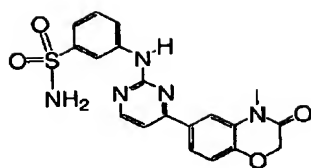
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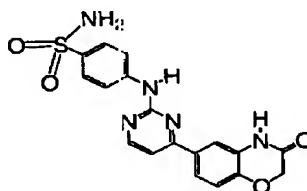
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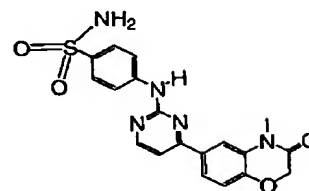
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IVa-22

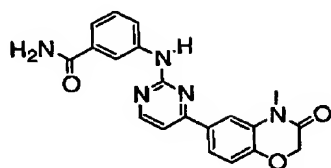
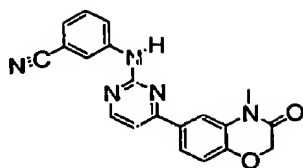
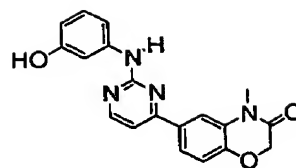
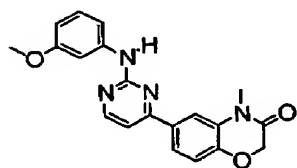
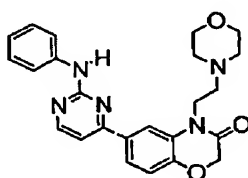
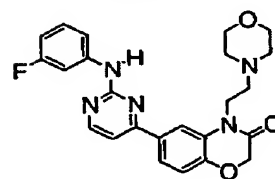
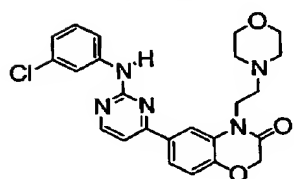
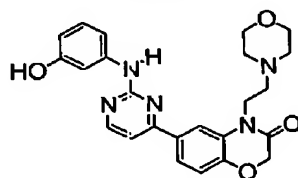
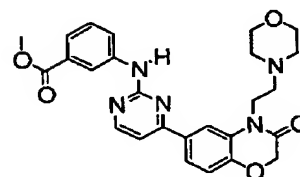
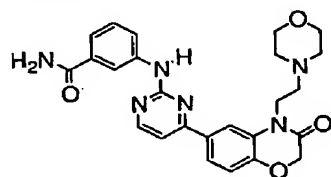
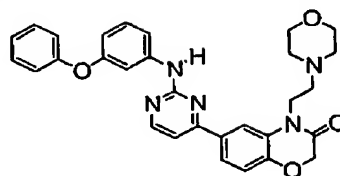
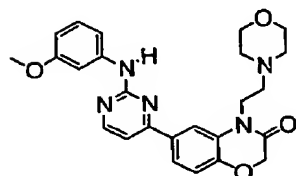
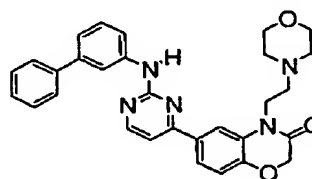


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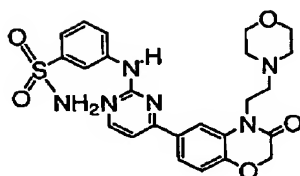


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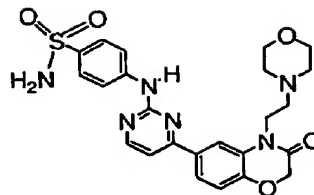
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**IVa-25****IVa-26****IVa-27****IVa-28****IVa-29****IVa-30****IVa-31****IVa-32****IVa-33****IVa-34****IVa-35****IVa-36****IVa-37**

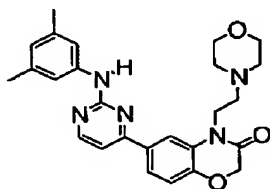
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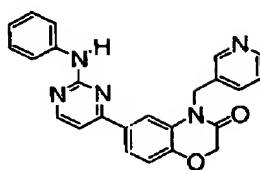
IVa-38



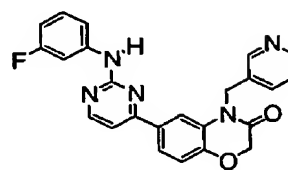
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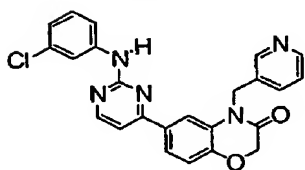
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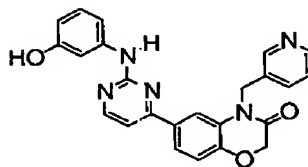
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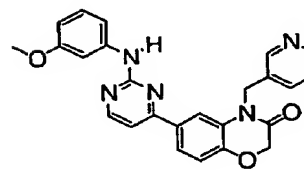
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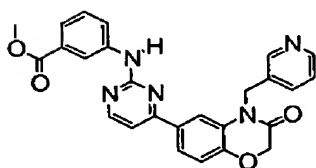
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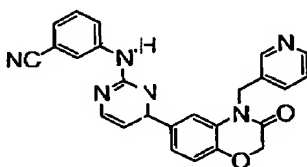
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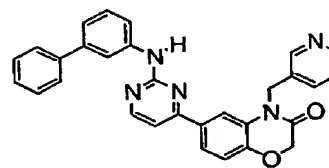
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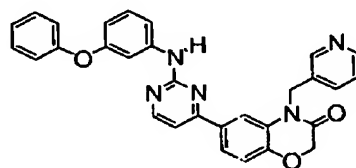
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IVa-47

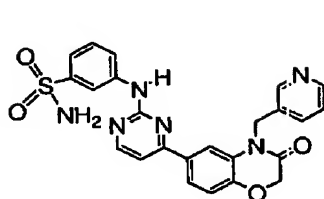


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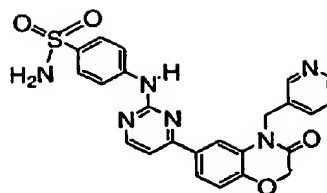


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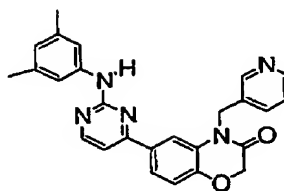
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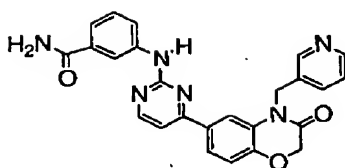
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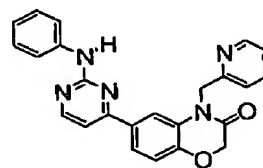
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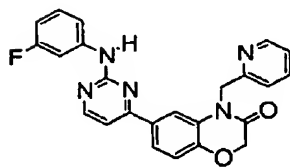
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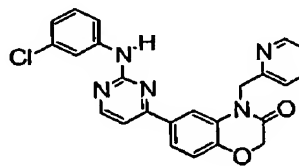
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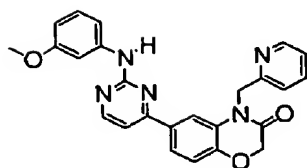
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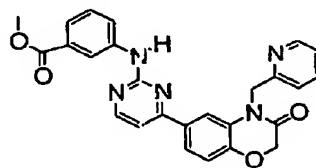
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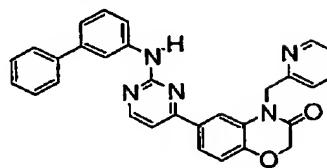
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IVa-57

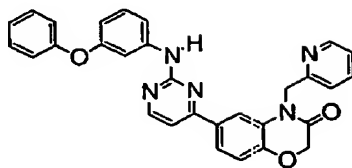
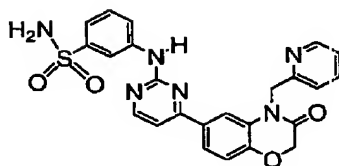
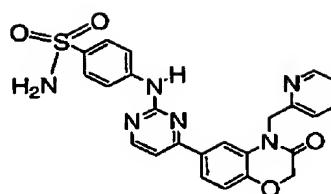
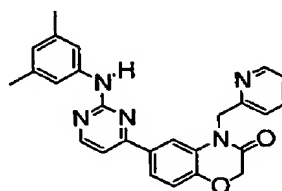
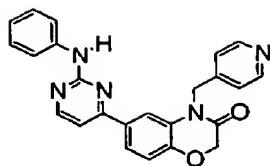
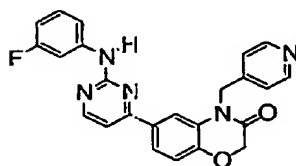
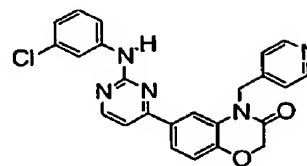
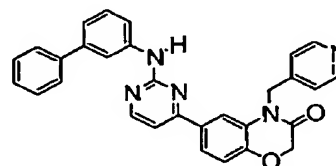


IVa-58

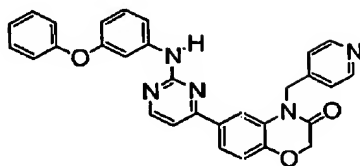


IVa-59

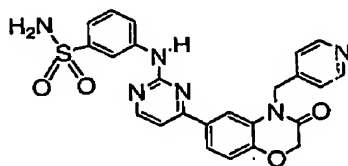
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**IVa-60****IVa-61****IVa-62****IVa-63****IVa-64****IVa-65****IVa-66****IVa-67****IVa-68**

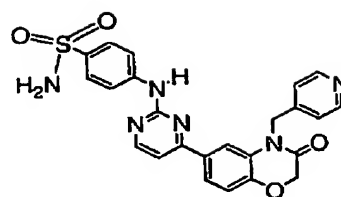
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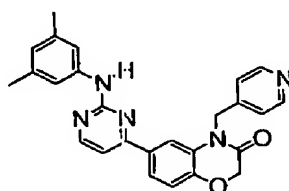
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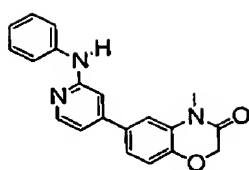
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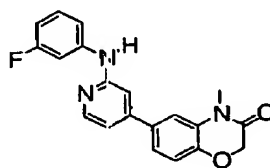
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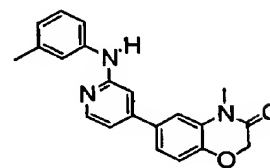
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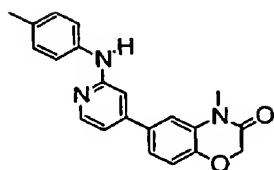
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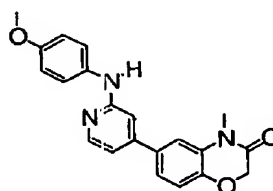
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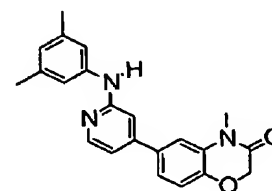
IVb-3



IVb-4

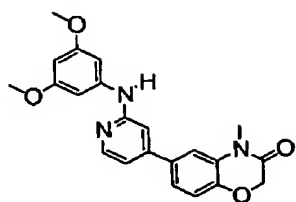


IVb-5

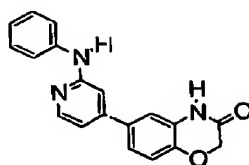


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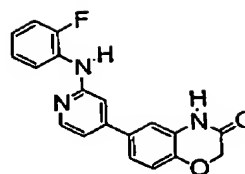
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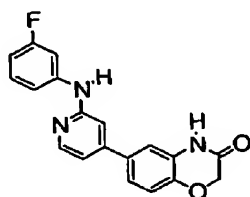
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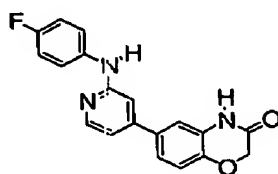
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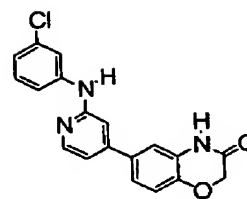
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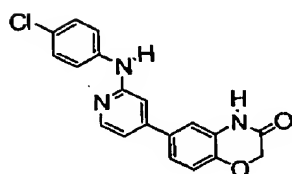
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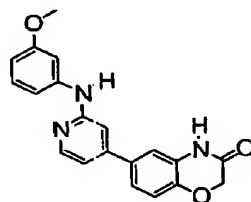
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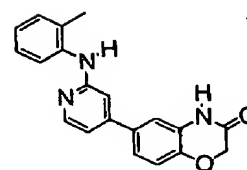
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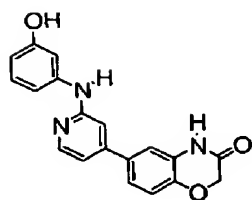
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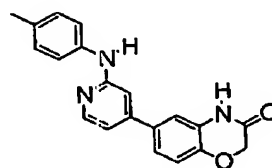
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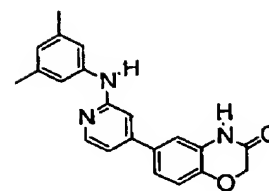
IVb-15



IVb-16

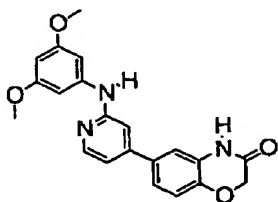


IVb-17

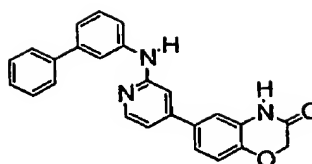


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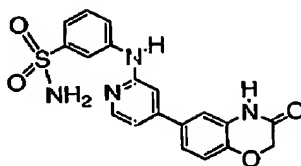
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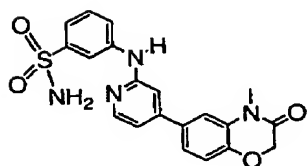
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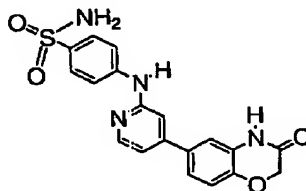
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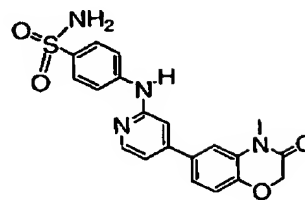
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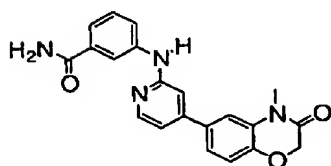
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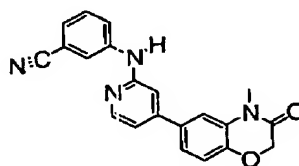
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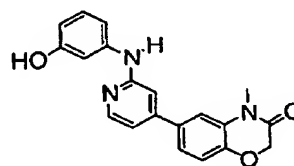
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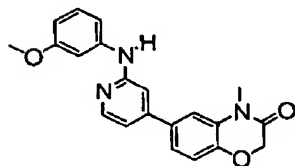
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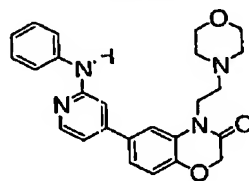
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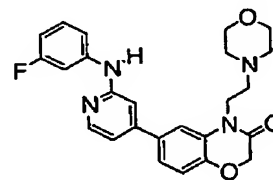
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IVb-28

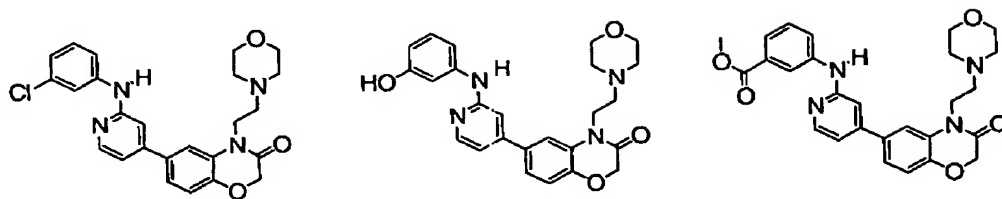


IVb-29



IVb-30

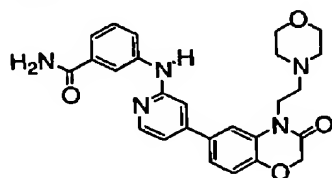
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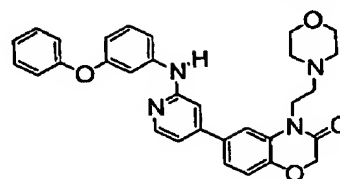
IVb-31

IVb-32

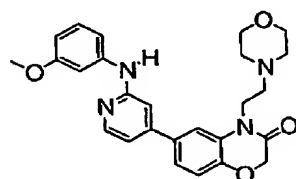
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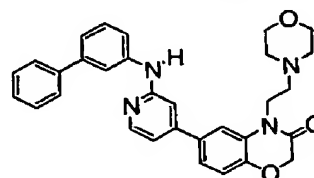
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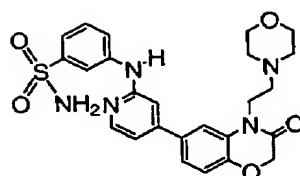
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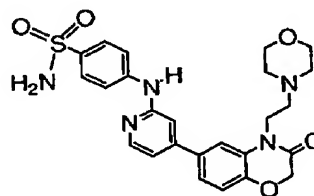
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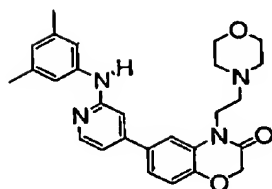
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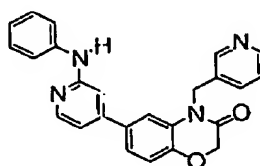
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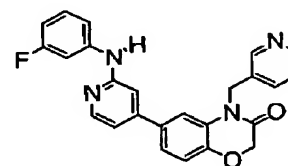
IVb-39



IVb-40

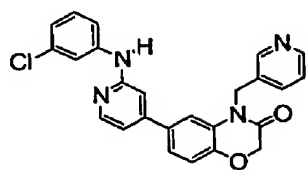


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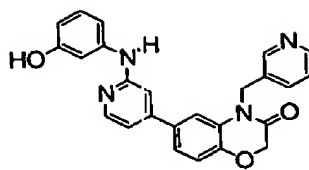


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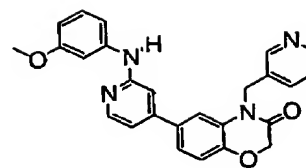
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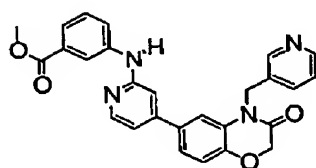
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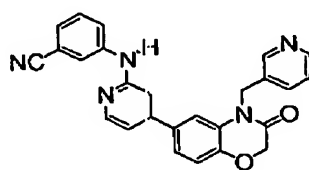
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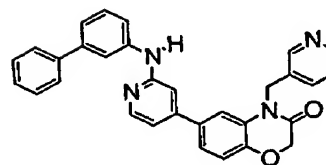
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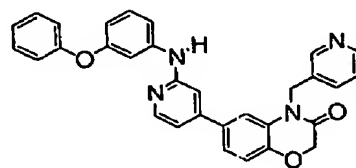
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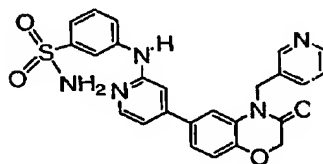
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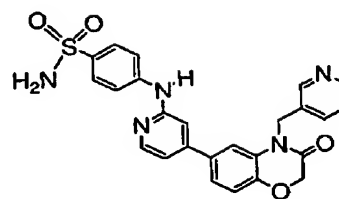
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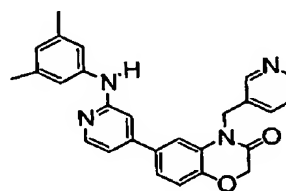
IVb-49



IVb-50

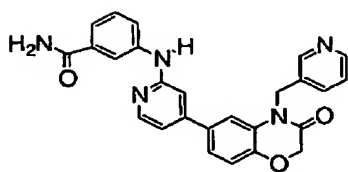


IVb-51

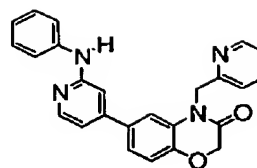


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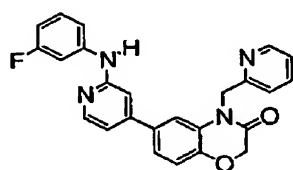
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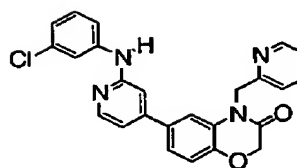
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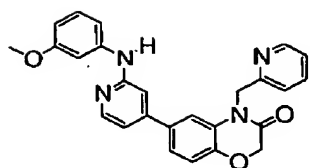
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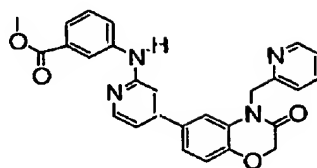
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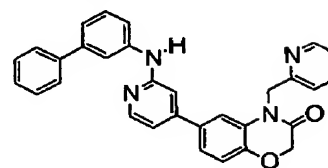
IVb-56



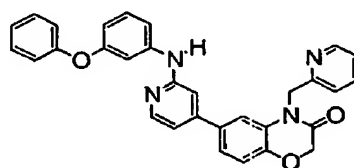
IVb-57



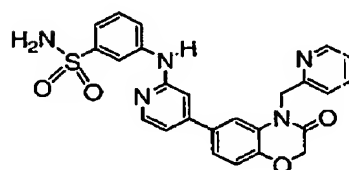
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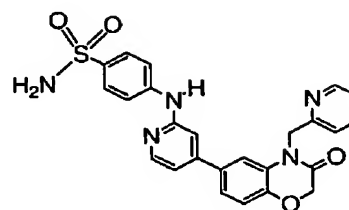
IVb-59



IVb-60

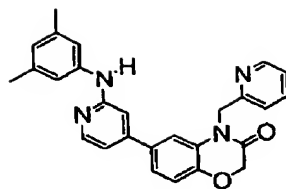


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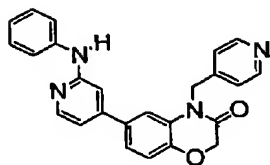


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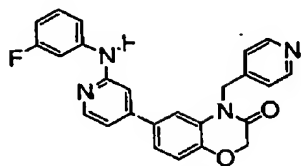
Applicants: Randy S. Bethiel et al.
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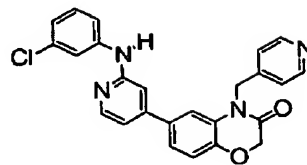
IVb-63



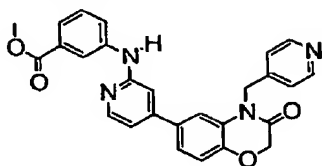
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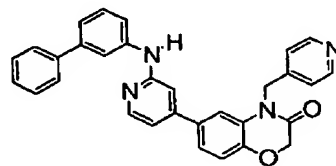
IVb-65



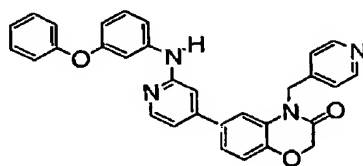
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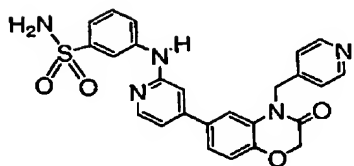
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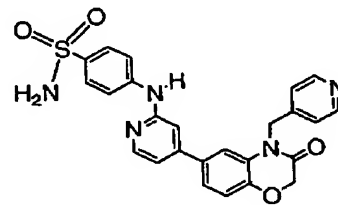
IVb-68



IVb-69

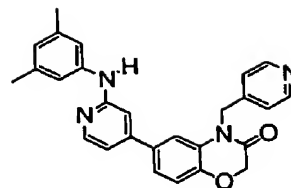


IVb-70



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or

IVb-72.

24. (Original) A pharmaceutical composition comprising a compound according to claim 1, and a pharmaceutically acceptable carrier, adjuvant, or vehicle.

25-27. (Canceled)

28. (Currently amended) A method of treating or lessening the severity of a disease or disorder selected from an allergic or type I hypersensitivity reaction, asthma, transplant rejection, graft versus host disease, or rheumatoid arthritis, ~~or leukemia~~, comprising administering to a subject in need thereof a compound of claim 1 or a composition comprising said compound.

29. (Currently amended) The method of claim 28, comprising the further step of administering to said patient an additional therapeutic agent selected from a ~~chemotherapeutic or anti-proliferative agent~~, a treatment for asthma, an anti-inflammatory agent, or an immunomodulatory or immunosuppressive agent, wherein:
said additional therapeutic agent is appropriate for the disease being treated; and
said additional therapeutic agent is administered together with said composition as a single dosage form or separately from said composition as part of a multiple dosage form.

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